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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,089	02/28/2002	James M. Kubiak	0942.2840002	8471
26111	7590	01/09/2006	EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			GORDON, BRIAN R	
		ART UNIT	PAPER NUMBER	
			1743	

DATE MAILED: 01/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/084,089	KUBIAK ET AL.	
	Examiner	Art Unit	
	Brian R. Gordon	1743	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 11-4-05.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 66-81 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 66-68 and 71 is/are rejected.
 7) Claim(s) 69-70 and 72-81 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 2-28-02 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 66-68, and 71 are rejected under 35 U.S.C. 102(b) as being anticipated by Hoover et al. US 4,979,639.

Hoover et al. discloses a multiflavor beverage dispenser comprises a microprocessor system for controlling the ratio of diluent to concentrate of a post-mix beverage. The system includes a compact flow rate control module for selectively controlling the flow rates of liquids in a plurality of flow passages leading to nozzle assemblies of the dispenser. Each flow rate control module includes a single stepper motor connected to a rotary spool valve for selectively controlling the flow rate of the liquids. The microprocessor system utilizes variable reference signals which are ramped to approximately correspond to the actual flow rate of the liquid towards a target in order to reduce overshoot values of the flow rates. A scaling function is provided by the

microprocessor system to adjust target flow rates between pours in order to achieve consistent controlled ratios of the beverage being dispensed (abstract).

The ratio control system of the present invention is implemented by a microprocessor and associated software in combination with the multiflavor dispenser apparatus and the above-described flow rate control assembly. The microprocessor and software (readable program mean code means), in combination with the flow rate control assembly, together form a system for dispensing a mixture of concentrate and diluent of a controlled ratio at or near a selected flow rate from a mixing means comprising: concentrate supply conduit means (incompatible concentrated solutions) in fluid communication with said mixing means; diluent supply (diluent stream) conduit means in fluid communication with said mixing means; concentrate sensor means for determining the actual flow rate of concentrate in said concentrate supply conduit means and generating a concentrate flow rate signal; diluent sensor means for determining the actual flow rate of diluent in said diluent supply conduit means, and generating a diluent flow rate signal; target signal generator means for generating target flow rate signals for the concentrate and the diluent in the respective conduit means, the concentrate and diluent flow rate signals being determined from the selected flow rate of the mixture at given ratios of diluent to concentrate of the mixture; reference signal generator means for generating variable reference flow rate signals associated with each of the concentrate flow rate and diluent flow rate; comparator means responsive to said concentrate flow rate sensor means and said diluent flow rate sensor means (flow sensor) for comparing each of the concentrate and diluent flow rate signals in the

respective conduit means with the associated variable reference flow rate signals, and generating concentrate and diluent error signals (monitor a parameter for acceptability, claim 71) indicative of the differences between concentrate and diluent flow rate signals and the respective associated variable reference flow rate signals (flow rate monitors); concentrate flow rate control means (flow rate adjustment means) responsive to said concentrate error signal for changing the actual concentrate flow rate in the concentrate supply conduit means toward a value equal to the variable reference flow rate reference signal associated with the concentrate flow rate until the concentrate error signal equals approximately zero; diluent flow rate control means (flow rate adjustmen) responsive to said diluent error signal for changing the actual diluent flow rate in the diluent supply conduit means toward a value equal to the variable reference flow rate associated with the diluent flow rate until the diluent error signal equals approximately zero; **adjusting means** for gradually varying each of the variable reference flow rate signals associated with the concentrate flow rate and diluent flow rate toward the respective target flow rate signals thereof; and scaling means for scaling up or down the target flow rates of the concentrate and diluent to values consistent with the controlled ratio, and causing the reference adjusting means to adjust the variable reference signals upward or downward if either the average value of the concentrate error signals or the average value of the diluent error signals during a specified time period exceed defined limits, whereby a controlled ratio of concentrate and diluent will be dispensed even if the selected flow rate of the mixture is not consistently achieved (column 2, line 21 – column 3, line 18).

The plurality of concentrated solutions begin to mix in the conduit of the nozzle assembly (static mixing chamber).

Allowable Subject Matter

4. Claims 69-70, 72-81 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not teach nor fairly suggest a computer readable program code means for enabling the computer system to monitor a level of said diluted mixture in a medium surge tank; and computer readable program code means for enabling the computer system to adjust the flow of said diluted mixture into said medium surge tank, computer readable program code means for enabling the computer system to control a diverter valve that directs said diluted mixture based on whether said diluted mixture is acceptable, and computer readable program code means for enabling the computer system to monitor a pH level of said diluted mixture using at least one pH sensor located downstream of said static mixing chamber.

Response to Arguments

6. Applicant's arguments filed November 4, 2005 have been fully considered but they are not persuasive. Applicant asserts Hoover et al. refers to a beverage dispenser and does not teach that the concentrated solutions are incompatible. The name by which one chooses to refer to device does not structurally define the elements of which the device is comprised. As to the solutions being characterized as "incompatible", the

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examiner fails to locate a specific definition of the term within the specification. However, paragraph [0057] discloses, "none of the ingredients of concentrate solutions 115 adversely chemically react with one another." The examiner assumes this is what applicant means by "incompatible". As such the examiner asserts the concentrated solutions used in the device of Hoover do not adversely react with one another, hence the solutions are considered incompatible.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

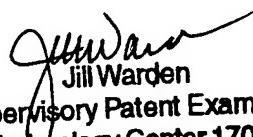
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Gordon whose telephone number is 571-272-1258. The examiner can normally be reached on M-F, with 2nd and 4th F off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

brg


Jill Warden
Supervisory Patent Examiner
Technology Center 1700